

# Direct Variation Power Model

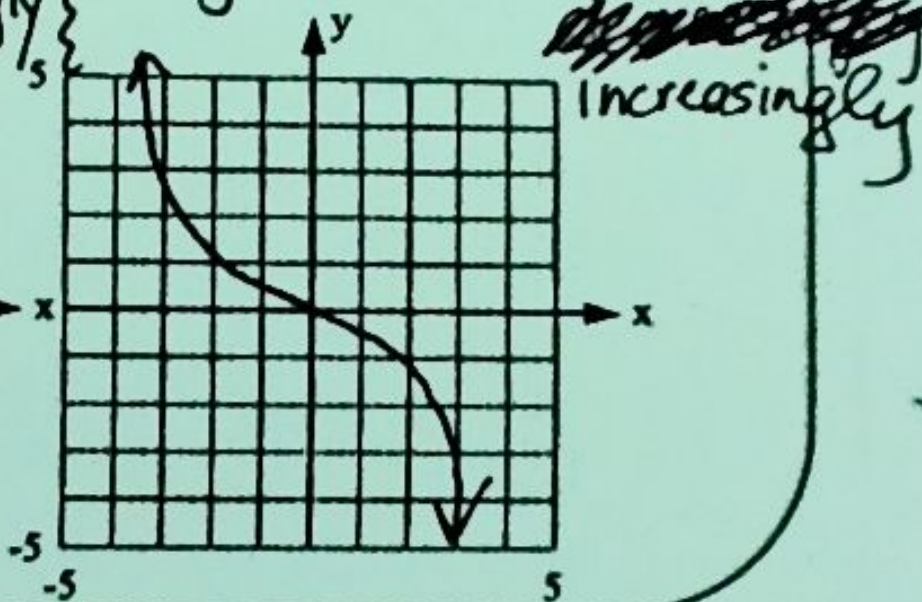
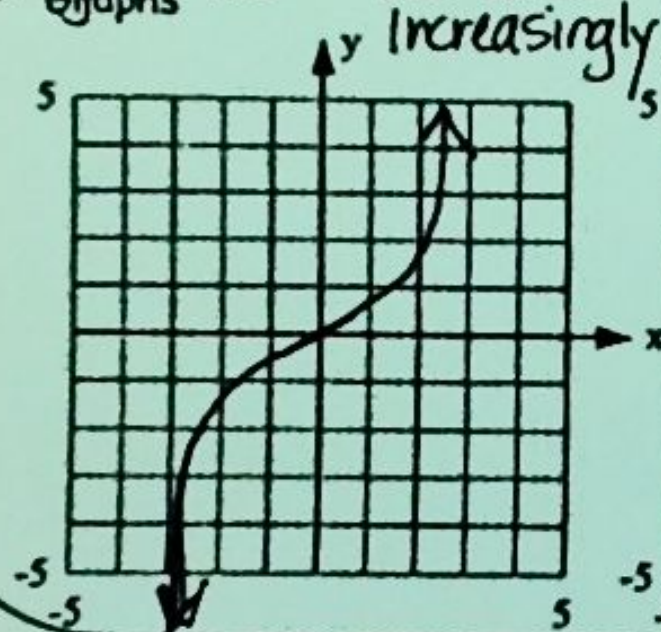
# Cubic Function

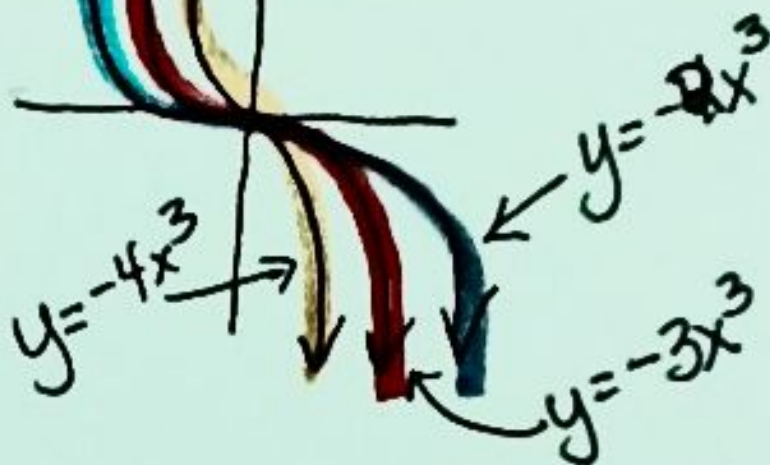
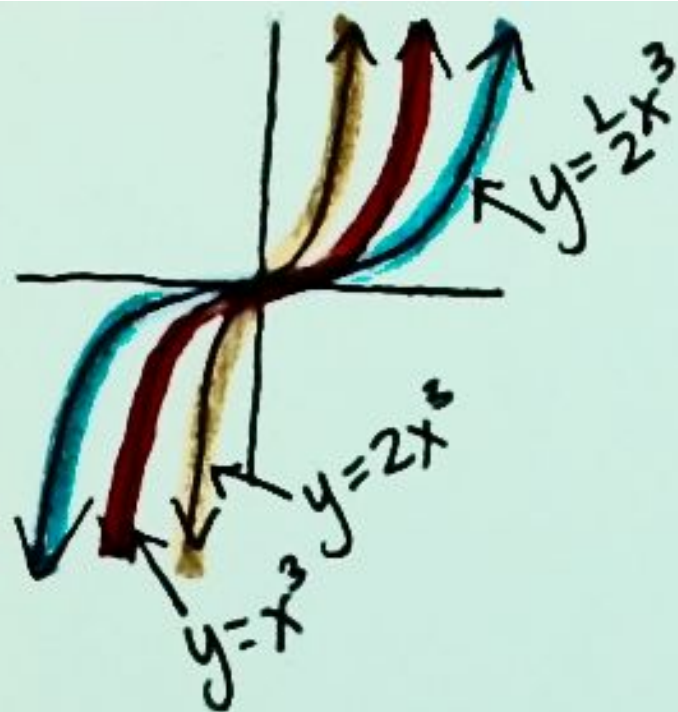
$$y = Kx^3$$

Words for phrases describing the patterns in the graphs below:

$K > 0$  As  $x$  increases  
Constantly,  $y$  increases  
decreasingly until the  
Origin then increases

$K < 0$  As  $x$  increases  
Constantly,  $y$  decreases  
decreasingly until the  
Origin then decreases





① The further away the  $k$ -value is from zero the steeper the cubic function.

② The larger the  $|k|$  the steeper the curve.